

Wood Pellets Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 - 2034

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Report description:

The Global Wood Pellets Market, valued at USD 13.6 billion in 2024, is projected to expand at a CAGR of 16.4% between 2025 and 2034. This rapid growth is fueled by the increasing global shift toward renewable energy sources, driven by concerns over climate change, evolving energy policies, and growing market liberalization. The push for cleaner, more sustainable energy solutions encourages both consumers and industries to adopt bio-based alternatives like wood pellets.

Government initiatives in developed regions, particularly in Europe, significantly contribute to this trend. Authorities are actively investing in research and development to mitigate air pollution and its impact on public health. Meanwhile, private sector involvement in renewable energy research is on the rise, leading to an uptick in public-private collaborations aimed at accelerating the global deployment of sustainable energy technologies. These efforts are expected to boost the demand for wood pellets over the next decade.

Technological advancements in the sector are also playing a crucial role in shaping market dynamics. Innovations focused on enhancing the energy density and quality of wood pellets are helping to minimize greenhouse gas (GHG) emissions, particularly during transportation. Emerging technologies like torrefaction, which improves the energy content and combustion properties of biomass, are anticipated to further optimize wood pellet performance, making them a more attractive option for large-scale energy applications.

The market is segmented by grade into premium, utility, and standard categories. The utility-grade segment is expected to grow at a CAGR exceeding 18% through 2034, largely due to its increasing use in industrial applications across key regions in Europe and Asia Pacific. Despite its benefits, the utility-grade pellets contain a higher ash content, making them less suitable for residential heating solutions.

In terms of application, the industry is divided into residential, commercial, industrial, and animal bedding sectors. The industrial

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segment is set to dominate, with revenue surpassing USD 16.5 billion by 2034. This growth is largely driven by the rising adoption of wood pellets in utility and combined heat and power (CHP) plants as more facilities transition from coal to biomass.

Europe is expected to lead the global wood pellets market, with a projected CAGR of 13.9% from 2025 to 2034. Increasing energy demands across Western Europe, particularly in countries like Germany and Spain, are driving regional growth and solidifying Europe's position as a key player in the global market.

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